







Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Robert S. Langer, Scott M. Cannizarro, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Patel et al. FASEB J. Vol 12, pages 1447-1454 (Reference R). The purpose of this Declaration is to remove Reference R as a prior art reference with respect to the '540 application.
- 3. Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams are co-authors of Reference R and are not inventors of the subject matter of the claims of the '540 application.



D-4



- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference R discloses the claimed invention, the authors of Reference R derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams in connection with the preparation of Reference R.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:		
	Robert S. Langer	
Date:		
	Scott M. Cannizarro	
Date:		·
	Bernhard G. Mueller	
Date: 14 May 03	Kain Shekshuff	
9	Kevin Shakesheff	



Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 RECEIVED

JUN 1 3 2003

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Robert S. Langer, Scott M. Cannizarro, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Patel et al. FASEB J. Vol 12, pages 1447-1454 (Reference R). The purpose of this Declaration is to remove Reference R as a prior art reference with respect to the '540 application.
- 3. Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams are co-authors of Reference R and are not inventors of the subject matter of the claims of the '540 application.

- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference R discloses the claimed invention, the authors of Reference R derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams in connection with the preparation of Reference R.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

1 11 1A

Date:	
	Robert S. Langer
Date:	
	Scott M. Cannizarro
Date:	
	Bernhard G. Mueller
Date:	
	Kevin Shakesheff



CHOATE HALL & STEWART 6172484000

Attorney Docket No.: 0492611-0335 (MIT 8070) IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 RECEIVED

JUN 1 3 2002

TECH CENTER 1600/2900

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Robert S. Langer, Scott M. Cannizarro, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Patel et al. FASEB J. Vol 12, pages 1447-1454 (Reference R). The purpose of this Declaration is to remove Reference R as a prior art reference with respect to the '540 application.
- 3. Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams are co-authors of Reference R and are not inventors of the subject matter of the claims of the '540 application.

P. 4



- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference R discloses the claimed invention, the authors of Reference R derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams in connection with the preparation of Reference R.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:	
	Robert S. Langer
Date: May 30, 2003	
	Scott M. Cannizarro
Date:	
	Bernhard G. Mueller
Date:	
	Kevin Shakesheff



Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 RECEIVED

JUN 1 3 2003

TECH CENTER 1600/2900

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Robert S. Langer, Scott M. Cannizarro, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Patel et al. FASEB J. Vol 12, pages 1447-1454 (Reference R). The purpose of this Declaration is to remove Reference R as a prior art reference with respect to the '540 application.
- 3. Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams are co-authors of Reference R and are not inventors of the subject matter of the claims of the '540 application.

- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference R discloses the claimed invention, the authors of Reference R derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Nikin Patel, Robert Padera, Giles H. W. Sanders, Martyn C. Davies, Clive J. Roberts, Saul J. B. Tendler, and Philip M. Williams in connection with the preparation of Reference R.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:	
·	Robert S. Langer
Date:	
	Scott M. Cannizarro
Date: 05/27/2003	B. M
	Bernhard G. Mueller
Date:	
	Kevin Shakesheff







Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Scott M. Cannizarro, Robert S. Langer, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Cannizzaro et al. Biotechnology and Bioengineering, Vol. 58, No. 5, June 5, 1998 (Reference S). The purpose of this Declaration is to remove Reference S as a prior art reference with respect to the '540 application.
- 3. Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler are co-authors of Reference S and are not inventors of the invention claimed in the '540 application.





- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference S discloses the claimed invention, the authors of Reference S derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler in connection with preparing Reference S.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:	
	Robert S. Langer
Date:	
	Scott M. Cannizarro
Date:	
	Bernhard G. Mueller
Date:	
	Kevin Shakesheff



Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

RECEIVED

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 JUN 1 3 2003

TECH CENTER 1600/2900

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Scott M. Cannizarro, Robert S. Langer, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Cannizzaro et al. Biotechnology and Bioengineering, Vol. 58, No. 5, June 5, 1998 (Reference S). The purpose of this Declaration is to remove Reference S as a prior art reference with respect to the '540 application.
- 3. Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler are co-authors of Reference S and are not inventors of the invention claimed in the 540 application.

- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference S discloses the claimed invention, the authors of Reference S derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler in connection with preparing Reference S.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:	
	Robert S. Langer
Date: May 30, 2003	Sat Comment
	Scott M. Cannizarro
•	
Date:	·
	Bernhard G. Mueller
Date:	
	Kevin Shakesheff

Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Scott M. Cannizarro, Robert S. Langer, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Cannizzaro et al. Biotechnology and Bioengineering, Vol. 58, No. 5, June 5, 1998 (Reference S). The purpose of this Declaration is to remove Reference S as a prior art reference with respect to the '540 application.
- 3. Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler are co-authors of Reference S and are not inventors of the invention claimed in the 540 application.

- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference S discloses the claimed invention, the authors of Reference S derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler in connection with preparing Reference S.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:		
	Robert S. Langer	
Date:		
	Scott M. Cannizarro	
Date: 05/27/2005	Blh	
	Bernhard G. Mueller	
Date:		
	Kevin Shakesheff	

Applicant:

Langer et al.

Examiner:

Russel, Jeffrey E.

Serial No.:

09/314,540

Art Unit:

1654

Filed:

May 19, 1999

For:

Modification of Surfaces Using Biological Recognition Agents

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. 1.132

- 1. We are the inventors to the subject matter disclosed and claimed in United States patent application Serial No. 09/314,540 ('540 application) filed May 19, 1999 and entitled "MODIFICATION OF SURFACES USING BIOLOGICAL RECOGNITION AGENTS."
- 2. Scott M. Cannizarro, Robert S. Langer, and Kevin Shakesheff are three inventors on the instant application and are also three of the co-authors of Cannizzaro et al. Biotechnology and Bioengineering, Vol. 58, No. 5, June 5, 1998 (Reference S). The purpose of this Declaration is to remove Reference S as a prior art reference with respect to the '540 application.
- 3. Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler are co-authors of Reference S and are not inventors of the invention claimed in the 540 application.

- 4. Robert S. Langer, Scott M. Cannizarro, Bernhard G. Mueller, and Kevin Shakesheff mutually conceived and reduced to practice the invention recited in the claims of the '540 application.
- 5. To the extent that Reference S discloses the claimed invention, the authors of Reference S derived this subject matter from us, the inventors of the '540 application. The inventors communicated the subject matter of the claimed invention to Robert F. Padera, Rick A. Rodgers, Fiona E. Black, Martyn C. Davies, and Saul J.B. Tendler in connection with preparing Reference S.
- 4. I hereby declare that all statements made herein are of my own knowledge and are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Date:	· · · · · · · · · · · · · · · · · · ·
	Robert S. Langer
Date:	
	Scott M. Cannizarro
Date:	
	Bernhard G. Mueller
Date: 14 May 03	Kerin Shakshaff.
	Kevin Shakesheff